

FEATURES – THE ALTEC LANSING DIFFERENCE

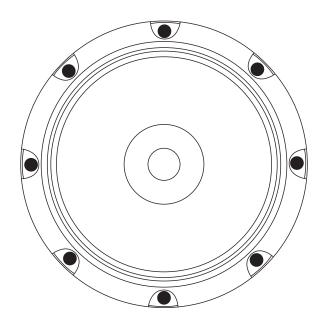
- Premium 8 inch / 200 mm Duplex® design
- Point-source design maximizes speech intelligibility
- 16 W EIA / 64 W peak power handling
- Available with three factory-mounted 70 V / 100 V transformers
- All transformers have a low < .6dB insertion loss
- Corrosion resistant speaker frame
- Special moisture resistant speaker cone

GENERAL PRODUCT DESCRIPTION

The Altec Lansing Professional CD308 series is a premium-grade Duplex® component designed to faithfully reproduce music program and the human voice. The CD308 family is an excellent choice for meeting spaces, under-balcony applications, A/V presentation facilities, shops & restaurants and other high quality general paging applications. The loudspeaker consists of an 8 inch / 200 mm special moisture resistant cone woofer and broad dispersion cone tweeter with heat resistant voice coils. The speaker frame has been treated for rust prevention. A 3,000 Hz first-order crossover provides smooth high frequency transitions. The double magnet design allows physical, electrical, and magnetic isolation. The optional 70 V/100 V transformers (4, 8, and 16 Watts) feature a low < 0.6 dB insertion loss.

8" Ceiling Speakers

CD308-8A CD308-4T CD308-8T CD308-16T



SPECIFICATIONS

Frequency Response

78 – 20,000 Hz +/- 5 dB

Low frequency limit (-10 dB)

63 Hz

Power Handling

16 W EIA, 64 W peak

Sensitivity (SPL - 1 W 1 m)

97 dB

Maximum Output (Peak SPL)

115 dB

Magnet Weight

0.63 lb (0.29 Kg)

Impedance

Nominal - 8 Ohms

Minimal - 7.3 Ohms

Crossover

3,000 Hz

DIMENSIONS

CD308-8A

Height: 3.11 in (79.6 mm) Diameter: 8.07 in (205 mm)

CD308-4T

Height: 3.68 in (94.1 mm) Diameter: 8.07 in (205 mm)

CD308-8T

Height: 3.68 in (94.1 mm) Diameter: 8.07 in (205 mm)

CD308-16T

Height: 4.11 in (104.1 mm) Diameter: 8.07 in (205 mm)

NET WEIGHT

CD308-8A

2 lbs 7 oz (1.1 kg)

CD308-4T

3 lbs 13 oz (1.7 kg)

CD308-8T

4 lbs 1 oz (1.8 kg)

CD308-16T

4 lbs 10 oz (2.1 kg)

SHIPPING WEIGHT

CD308-8A

2 lbs 6 oz (1.4 kg)

CD308-4T

4 lbs 9 oz (2.1 kg)

CD308-8T

4 lbs 13 oz (2.2 kg)

CD308-16T

5 lbs 7 oz (2.5 kg)

TRANSFORMER

CD308-4T

4 W 70 V/100 V transformer

with 70 V taps @ 4 W, 2 W, 1 W and 0.5 W

CD308-8T

8 W 70 V/100 V transformer

with 70 V taps @ 8W, 4W, 2W and 1.0W

CD308-16T

16 W 70 V/100 V transformer

with 70 V taps @ 16W, 8W, 4W and 2.0W

ARCHITECTS & ENGINEERS SPECIFICATION

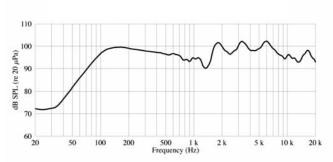
The loudspeaker shall be an Altec Lansing Professional CD308 series Duplex® with an 8 inch (200 mm) diameter moisture-resistant woofer and broad dispersion tweeter with heat resistant voice-coils. The speaker shall have a power rating of 16 W EIA / 64 W peak, a double magnet assembly and corrosion-resistant frame. The frequency response shall be 78 to 20,000 Hz +/- 5 dB with a sensitivity of 97 dB @ 1 W 1 m. All transformers shall have a low < 0.6 dB insertion loss. The model numbers shall be Altec Lansing Professional CD308-8A for 8 Ohms impedance, CD308-4T with a 4 Watt 70 V/100 V transformer, CD308-8T with an 8 Watt 70 V/100 V transformer, and a CD308-16T with a 16 Watt 70 V/100 V transformer.

ENCLOSURES AND BAFFLES

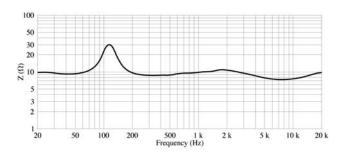
The CD308-series ceiling speakers will fit on standard 8 inch (200 mm) baffles, enclosures and back boxes.

All measurements were made in a standard AES baffle for a 12 inch driver. The driver was housed in a 1.0 ft³ (0.028 m³) enclosure.

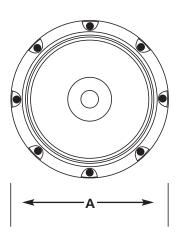
Frequency Response (1 W 1 m on-axis)

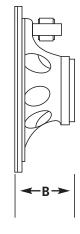


Impedance



MOUNTING DIMENSIONS





Please note that larger volume enclosures will result in altered low frequency performance.

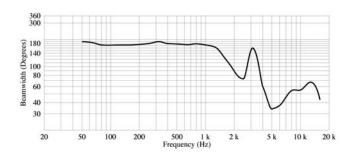
SAFETY CONSIDERATION

- 1. Appropriate connectors with suitable ratings must be used to make all installation connections.
- 2. All unused taps must be insulated with suitable insulation.
- Transformers and speaker combinations must be supplied by a suitable amplifier incorporating ungrounded outputs only and reinforced insulation (as per IEC60065) from output to mains.

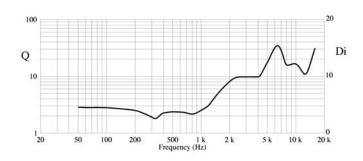
ACCESSORIES

Altec Lansing recommends use of our 8 inch (200 mm) round and square metal enclosures, grilles and tile bridge. The CD308 Series will also fit on standard industry ceiling speaker hardware.

Beamwidth

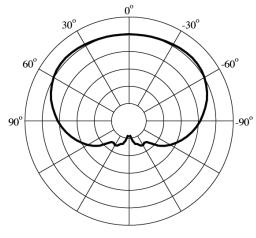


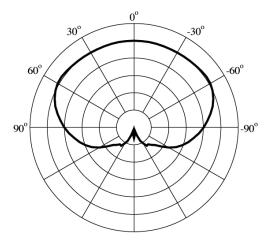
Q & Directivity Index



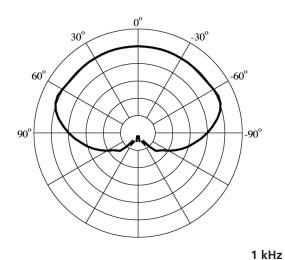
	Α	В
CD308-8A	8.07 in (205 mm)	3.11 in (79 mm)
CD308-4T	8.07 in (205 mm)	3.68 in (94 mm)
CD308-8T	8.07 in (205 mm)	3.68 in (94 mm)
CD308-16T	8.07 in (205 mm)	4.11 in (105 mm)

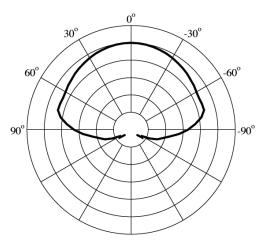
One Octave Polar Response Charts 6 dB/Division



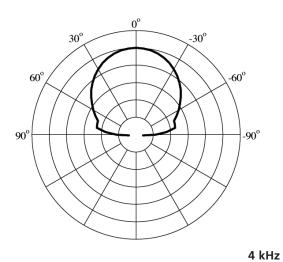


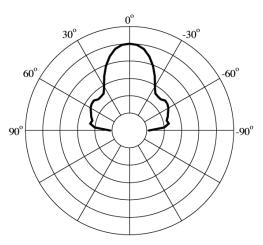
250 Hz 500 Hz





2 kHz





8 kHz

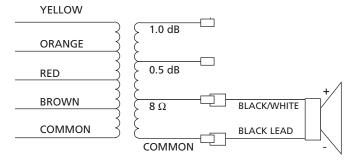
As we are continually striving to improve Altec Lansing products, specifications are subject to change without notice.

TRANSFORMER CHART

CD308

Premium 4 W Transformer (T504-71) Primary	Premium 8 W Transformer (T508-71) Primary	Premium 16 W Transformer (T516-71) Primary	70.7 V Primary Tap Color Code	100 V Primary Tap Color Code
4.0 W	8.0 W	16.0 W	Brown	Red
2.0 W	4.0 W	8.0 W	Red	Orange
1.0 W	2.0 W	4.0 W	Orange	Yellow
0.5 W	1.0 W	2.0 W	Yellow	N/A
	Primary Common		Black	

WIRING DIAGRAM





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Phone: 1-405-848-3108 • Fax: 1-405-848-3217 Web: WWW.altecpro.com • Email: proinfo@alteclansing.com